

eLandings: Electronic Catch Reporting System for Alaska's Commercial Fisheries



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Introduction

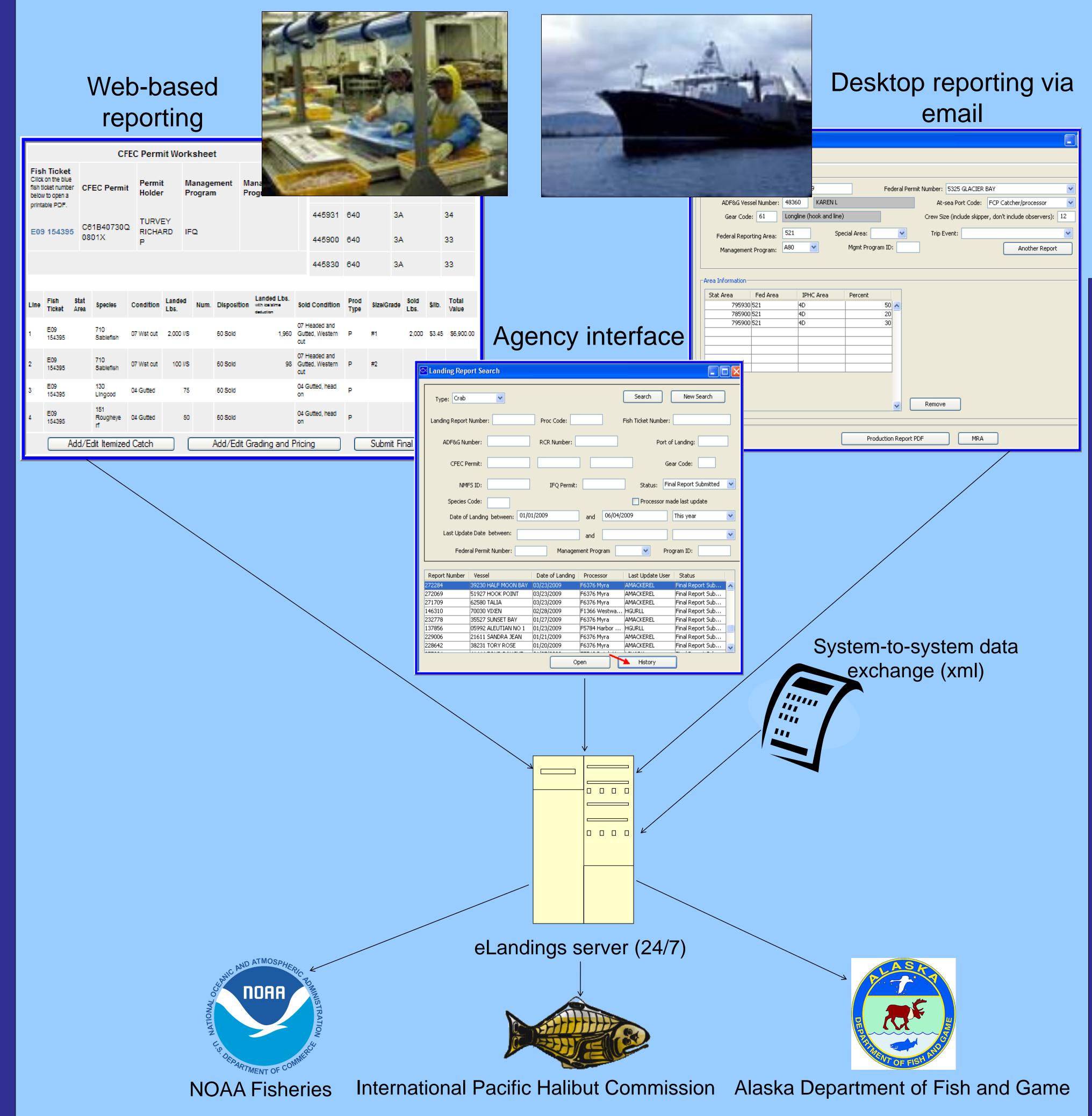
- One-stop electronic reporting system for commercial fisheries data in Alaska
- Allows for the electronic reporting of landings and production data for crab, halibut, sablefish, other Federal and State groundfish, salmon
- Used by limited access and other management programs such as the Rockfish Program, Amendment 80,
 Community Development Quota, Individual Fishing
 Quota, American Fisheries Act Pollock Program
- Designed by an interagency team from NOAA Fisheries, the Alaska Department of Fish and Game, and the International Pacific Halibut Commission

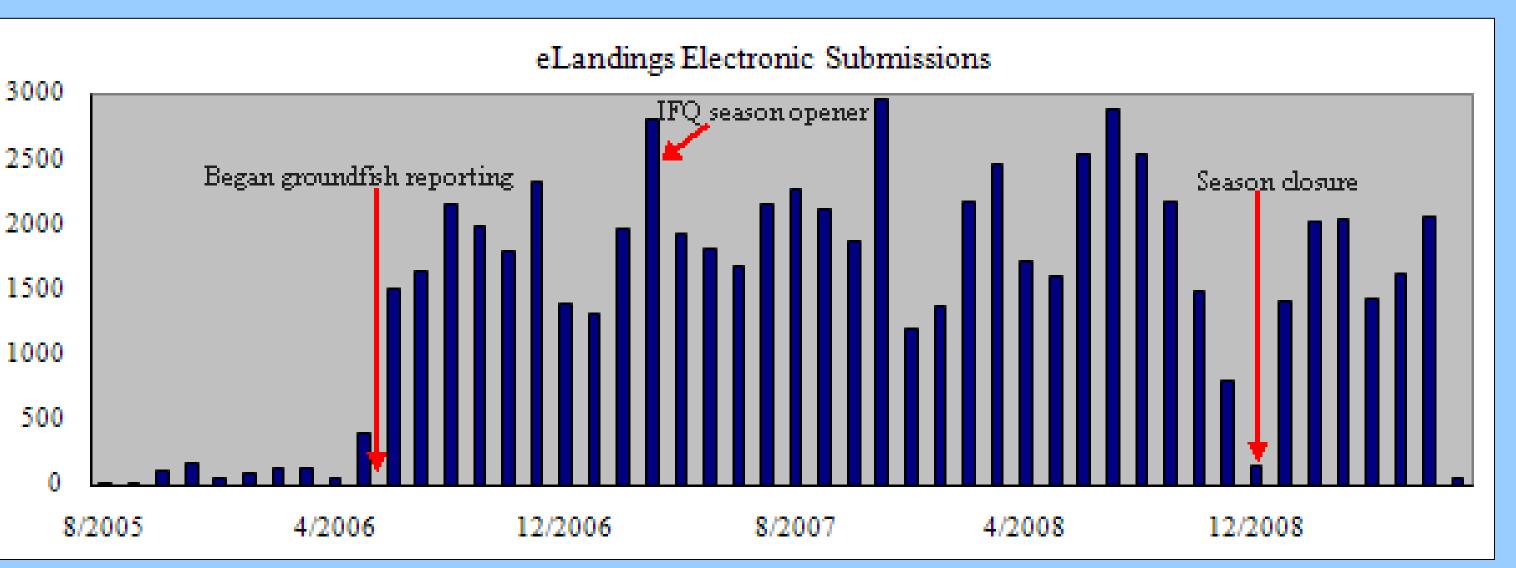
Objectives

- Single repository for multiple types of data
- Increase report timeliness; agency staff receives near real-time catch data
- Reduce data-entry for users
- Improve landing and production data accuracy with system validation checks
- Provide data extract capabilities for Enforcement, State Troopers, inseason management, industry staff

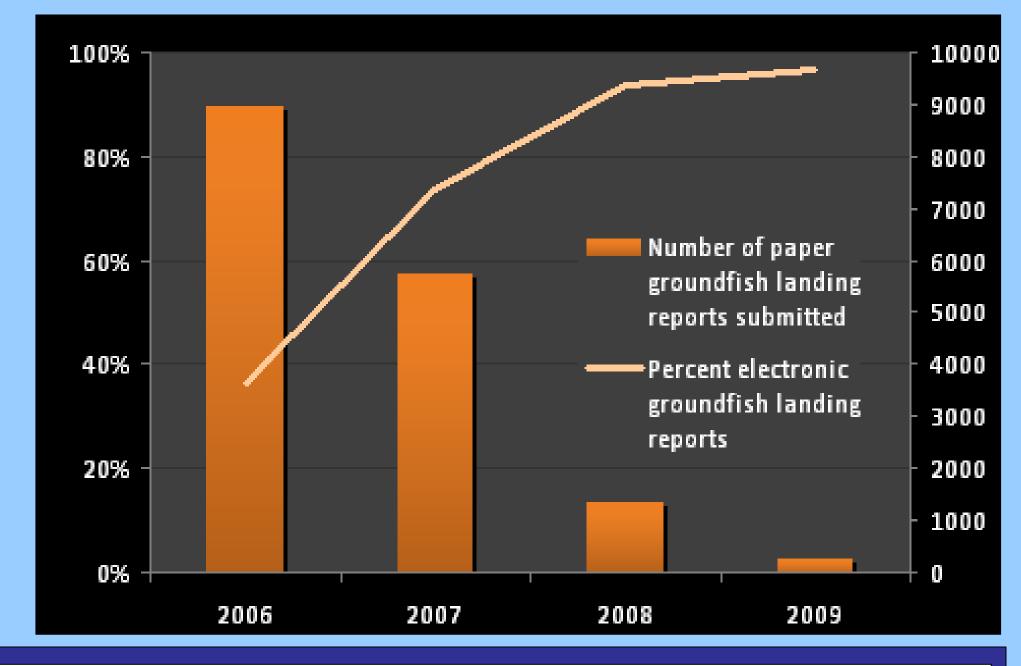
Methods

- Implemented in August 2005 with rationalized crab fishery, expanded to Federal and State groundfish fisheries in 2006, and introduced to at-sea catcher processors in 2007 (see graph at right)
- Four pathways for data-entry: web interface, standalone client and email, system-to-system exchange, and the agency desktop
- Shared JAVA code among the web interface, web services, and the stand-alone client
- System provides a printable receipt of landings and production data
- •Visible system monitoring and 24-hour system support
- Help desk and call-forwarding service ensure user support on nights and weekends





http://elandings.alaska.gov



Results

- Reduction in submission of paper reports (see graph above); in 2008, 94% of crab and groundfish landings were electronically submitted and 48,000 landing reports submitted electronically since 2006
- System data validation checks reduce data-entry errors
- Dramatic reduction in lag between catch and availability of accurate and complete catch data for fisheries management

Challenges

- User support can be time-consuming, especially when experienced users have complex reporting issues
- Requires constant communication with all agencies involved
- High turn-over rate at some plants/on-going training
- Long learning curve for some users
- Connectivity issues in remote areas and while at-sea
- Upgrading the desktop software on remote at-sea vessels to account for system updates and changes in reporting requirements
- User's guide needs constant updating as reporting system changes over time
- Keeping regulations up-to-date and sufficiently general to allow for progressive change to the reporting system
- Complexities of how fisheries are managed creates inherent complexities in reporting system
- Supporting 24x7 industry with 8x5 agency staff

Future Directions

- Increase data import/export capabilities to allow industry to incorporate their own database systems
- Upgrade the system using feedback received during annual workshops and daily support calls
- •Expand electronic data-entry of landings and production data to include other species fisheries
- •Continue improving eLandings user support and documentation, including the development of video training